

XI. A Description of the several Strata of Earth, Stone, Coal, &c. found in a Coal-Pit at the West End of Dudley in Staffordshire: By Mr. Fettiplace Bellers, F. R. S. To which is added, a Table of the Specifick Gravity of each Stratum: By Mr Fr. Hauksbee, F. R. S. Communicated by Dr. Hans Sloane, R. S. Secr.

- I. A Yellowish Clay, which lies immediately under the Turf.
- II. A Blewish Clay.
- III. A Blewish hard Clay; the Miners call it *Clunch*. This is one of the certain Signs of Coal. It has in it Mineral Plants.
- IV. A Blewish soft Clay.
- V. A fine-grained Gray Stone: It lies next the former, and is found in some Pits only.
- VI. A Clay almost like the First, only whiter.
- VII. A hard Gray Rock; with something like the Impressions of Vegetables, but none distinct.
- VIII. A Blew *Clunch*, like Numb. 3. with Mineral Plants in it.
- VIII. +. This *Stratum* (which is the same with Numb. 13.) was not taken.
- IX. Coal, called *Bench-Coal*.
- X. Coal, less black and shining than the former, called *Slipper-Coal*.
- XI. Coal, more black and shining, called *Spir-Coal*.
- XII. A Coal like *Cannal-Coal*, by the Miners called *Stone Coal*. These *Strata* of Coal have between each

of them a *Bat*, of about the thickness of a Crown Piece.

XIII. A black Substance, called the *Dun-Row-Bat*.

XIV. A hard grey Iron Oar, called the *Dun-Row Iron-Stone*.

XV. A blewifh *Bat*, in which the following *Iron-Stone* lies, called the *White-Row*.

XVI. A hard blackifh Iron Oar, lying in small Nodules, having between them a white Substance; and from thence by the Miners called the *White-Row-Grains*, or *Iron-Stone*.

XVII. A hard grey Iron Oar, with some white spots in it, called the *Mid-row Grains*.

XVIII. A black fissile Substance, called the *Gublin-Bat*.

XIX. A hard blackifh Iron Oar, with white spots in it, called the *Gublin Iron-Stone*.

XX. A *Bat*, in Substance much like that of Numb. XVIII.

XXI. A hard grey Iron Oar, called the *Cannoc*, or *Cannot-Iron-Stone*.

XXII. A *Bat*, somewhat harder than Numb. XX.

XXIII. A dark, gray, hard Iron Oar, called the *Rubble Iron-Stone*.

XXIV. The *Table-Bat*, next under the *Rubble Iron-Stone*.

XXV. A coarse sort of Coal, called the *Foot-Coal*.

XXVI. A black, brittle, shining *Bat*.

XXVII. *The Heathen-Coal*.

XXVIII. A Substance like a coarse Coal, but by the Miners called a *Bat*; perhaps because it does not burn well.

XXIX. The *Bench-Coal*.

XXX. A *Bat* under the last, and is as low (*viz.* 188 $\frac{1}{2}$  Feet) as they generally dig, tho' there is a coarse Coal under this.

*N. B.* Those Substances, which divide the *Strata* of Coals and Iron Oars from each other, are called *Bats* by the Miners: They are generally black, consisting of a Matter peculiar to themselves, and are of a Texture nearest like *Marle*; tho' some of them are fissile, and others have a Substance not unlike Coal mixt with them.

*A Table of the Thickness of each Stratum, and its Proportion to Water, or Specifick Gravity.*

Number of the <i>Strata.</i>	Thickness of each <i>Stratum.</i>	Proportion to Water,	Or Specifick Gravity.
I.	4   0	as 385 to 192	as 200 to 100
II.	5   0	296   168	176
III.	24   0	23   9	256
IV.	9   0	209   106	197
V.	4   0	583   237	246
VI.	21   0	401   192	209
VII.	75   0	683   259	243
VIII.	5   a	223   88	253
VIII+.	1   0	—   —	—
IX.	3   0	7   5	140
X.	3   a	106   72	147
XI.	4   0	147   114	129
XII.	4   0	185   143	130
XIII.	1   a	408   198	206
XIV.	0   1	204   67	303
XV.	0   3	183   72	254
XVI.	1   3	325   232	334
XVII.	0   2	781   244	320

Number.

Number of the Strata.	Thickness of each Stratum. Feet. Inches.	Proportion to Water,	Or Specifick Gravity.
XVIII.	2 0	as 305 to 129	as 236 to 100
XIX.	0 9	920 266	346
XX.	1 6	192 76	253
XXI.	0 6	675 216 <sub>2</sub>	313
XXII.	1 0	428 165	290
XXIII.	0 6	828 231	358
XXIV.	2 0	333 153	218
XXV.	1 0	198 154	128
XXVI.	6 0	238 141	169
XXVII.	6 0	298 236 <sub>2</sub>	126
XXVIII.	0 1	267 186	144
XXIX.	2 0	314 240	131
XXX.	0 6	244 133	183

By which it is evident, that the Gravities of the several Strata are in no manner of Order; but purely casual, as if mixt by chance.

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